

Public Forum Presentation







Current Fire Department Deployment



Equipment

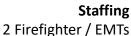
Engine 21 Rescue 34 Engine 26 Boat 1 Utility Task Vehicle

Staffing

1 Lieutenant2 Firefighter / EMTs2 Firefighter / Paramedics

Equipment

Ladder 28 Engine 22 Rescue 33 Hazmat Trailer SAFE / Education





Station 2

Station 1



Equipment

Engine 23 Car 30 (Captain) Brush 25 Boat 2

Staffing

Captain
2 Firefighter / EMTs

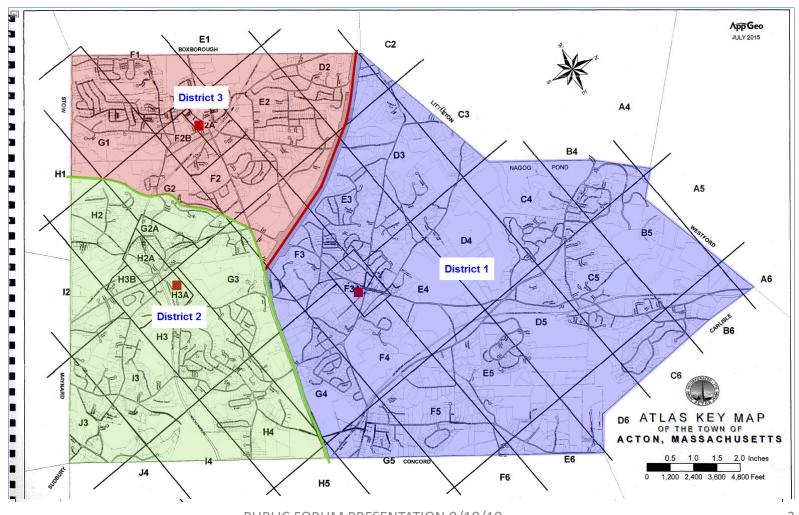
Equipment Command vehicles

Staffing
Fire Chief
Deputy Fire Chief
EMS Coordinator
Fire Administrative
Assistant



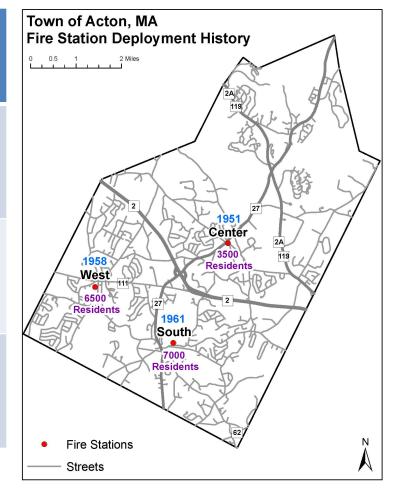
Fire Admin Office

Current District Map



Existing Stations

	Year Built	Total Acton Population When Constructed
Station 1 7 Concord Road, Acton Center	1951	3,500
Station 2 54 School Street, South Acton	1958	6,500
Station 256 Central Street, West Acton	1961	7,000



Current Population: 23,000

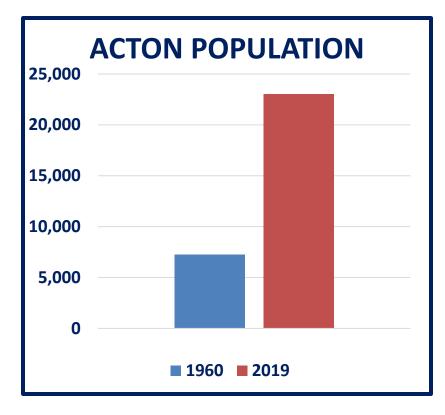
Why do we need a Fourth Station?

- Increased population and number of responses
- Locations of existing stations concentrated in

southern half of Acton

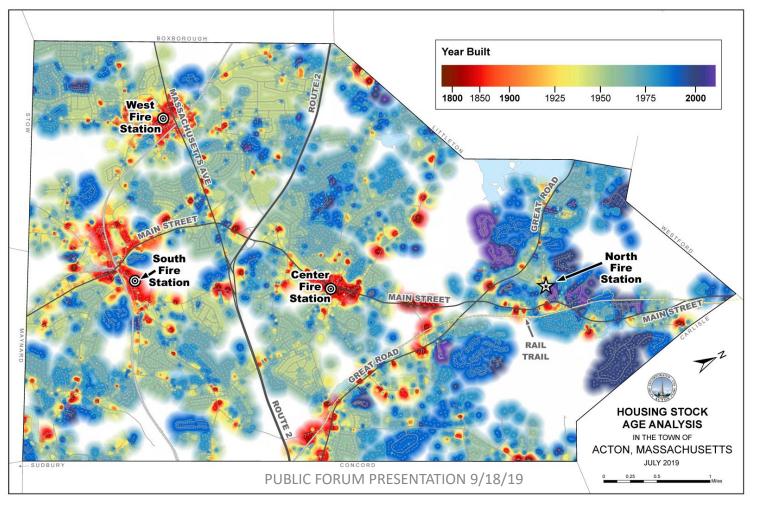
Growth in North Acton

Year	Emergency Responses
1939	21
1960	135
1999	684
2019	2628



Why do we need a Fourth Station?

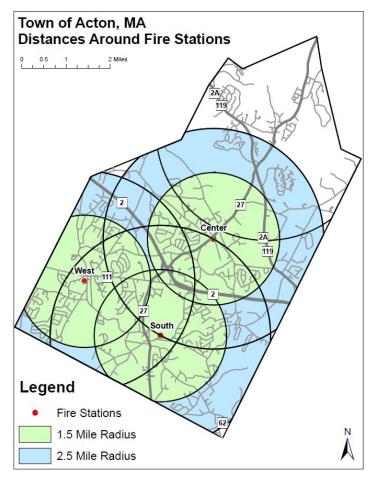
Population growth in North Acton



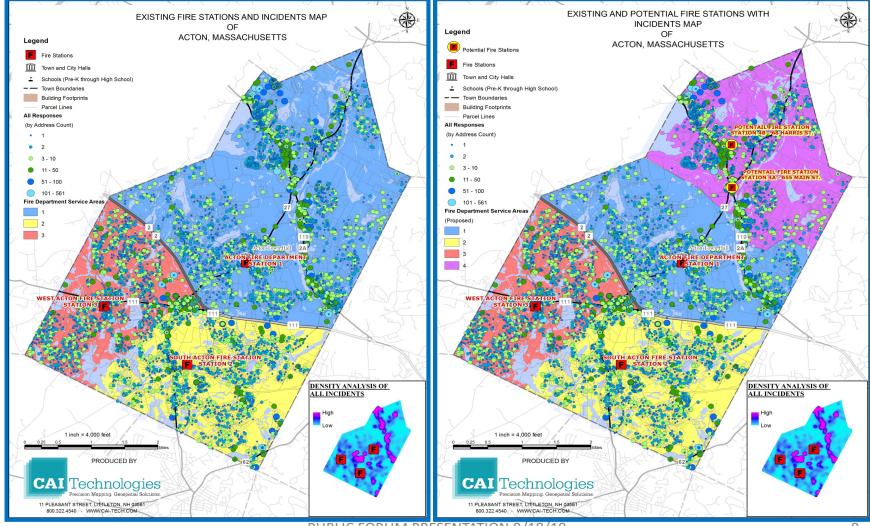
Why do we need a Fourth Station?

- Insurance Services Office (ISO) deployment and coverage model:
 - First due engine company should be within 1.5 miles travel distance of every location within their first due response area.
 - First due ladder company should have a travel distance of no more than 2.5 miles.

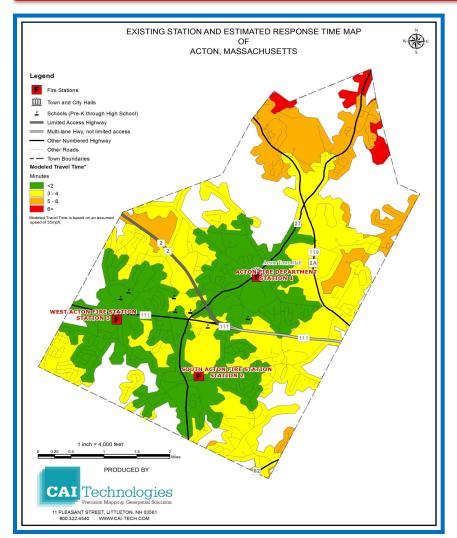
Fire Department Calls for Service	In North Acton	Town- wide	
2018-2019	1,251	5.319 PRESENTATION 9/1	L8/1

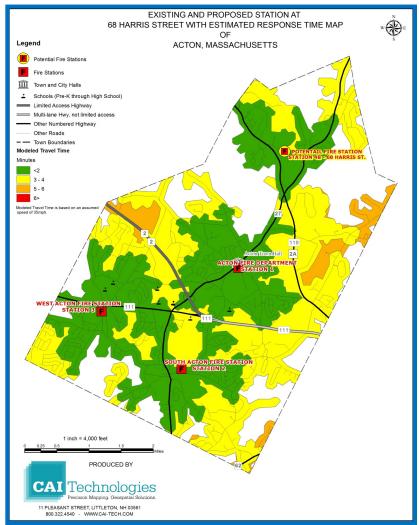


North Acton Fire Station Response Analysis 2016



North Acton Fire Station Coverage Analysis 2016





2018 Town Meeting

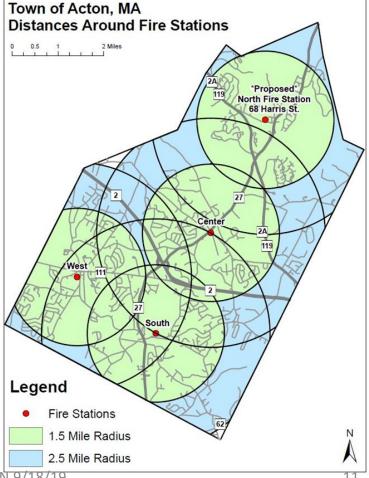
 At the 2018 Annual Town Meeting, Acton voters approved the funding for design cost including architectural and engineering services for a Fire/EMS station to be located at 68 Harris Street.

Coverage Maps

CURRENT

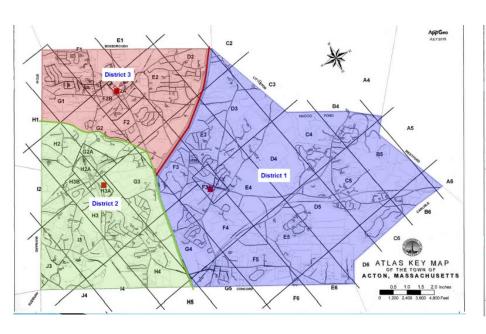
Town of Acton, MA **Distances Around Fire Stations** South Legend Fire Stations 1.5 Mile Radius 2.5 Mile Radius

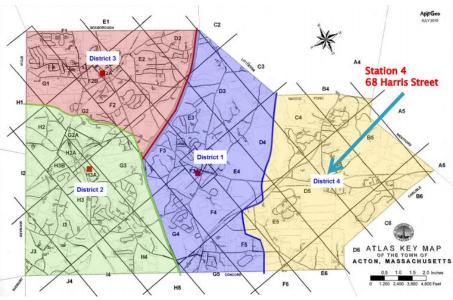
PROPOSED



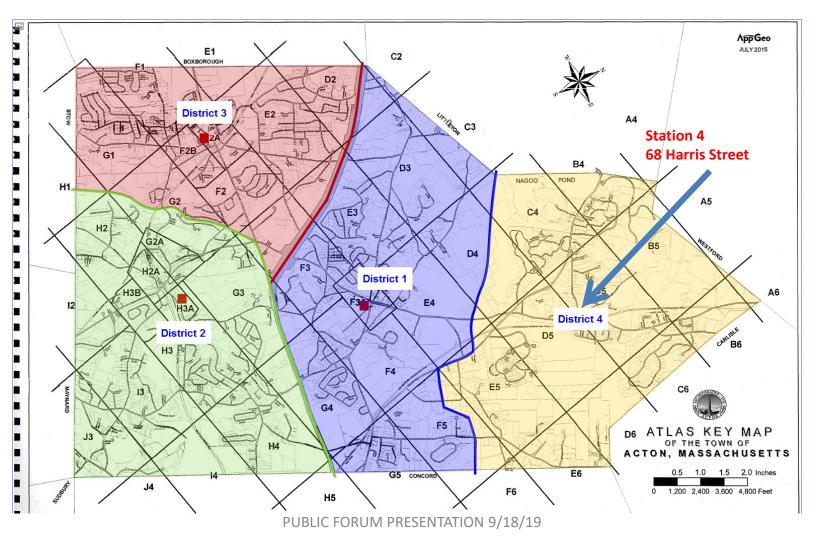
North Acton Fire Station Coverage Maps

CURRENT PROPOSED





Four District Map

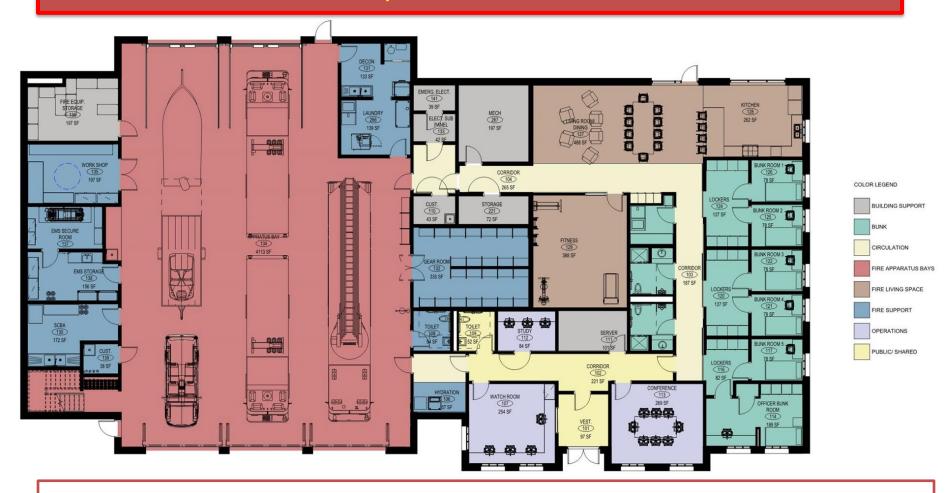


68 Harris Street Site

- Optimal location based on response time analysis and fire station needs assessment study 2016
- Town-owned property
- Layout designed to minimize impact on site and neighborhood
- Improvement to an abandoned property
- Maintain natural features of the site



Proposed Floor Plan



13,800 SF (12,300 SF footprint plus 1,500 SF mezzanines)

Conceptual Rendering



Current Fire Department Deployment



Equipment

Engine 21 Rescue 34 Engine 26 Boat 1 Utility Task Vehicle

Staffing

1 Lieutenant2 Firefighter / EMTs2 Firefighter / Paramedics

Equipment

Ladder 28 Engine 22 Rescue 33 Hazmat Trailer SAFE / Education





Station 2



Station 1

Equipment

Engine 23 Car 30 (Captain) Brush 25 Boat 2

Staffing

Captain
2 Firefighter / EMTs

Equipment

Command vehicles

Staffing Fire Chief Deputy Fire Chief EMS Coordinator Fire Administrative Assistant



Fire Admin Office

Station 3

Planned Fire Department Deployment



Equipment

Engine 21 Rescue 34 Car 30 (Captain) EMS Coordinator

EquipmentEngine 22 Rescue 33 Fire Alarm Vehicle

SAFE / Education Trailer



Staffing

1 Captain2 Firefighter / ParamedicsEMS/ALS Coordinator

Staffing 2 Firefighter / EMTs

Station 2





Equipment

Engine 23 Engine 27 Brush 25 Rescue Boat 2 Car 3

Staffing

2 Firefighter / EMTs

Equipment
Ladder 28
Engine 26
Boat 1
Car 4
Hazmat trailer
Utility Task Vehicle

Staffing 1 Lieutenant 1 Firefighter / EMT



Station 4

Sustainability Features

- All electric- not connected to natural gas
- Ground-sourced geothermal wells included in schematic design
 - High efficiency, lower operating costs, 12-year payback, lower carbon emissions
- Low E glazing
- Natural lighting in apparatus bays

Preliminary Cost Estimate

- The Schematic Design Cost Estimate for the Total Project Cost: \$10.9M
 - Includes design, OPM, fixtures, furniture, equipment and other soft costs
 - Includes 20% design contingency
 - Includes 5% construction contingency
 - Includes 4% escalation
- Currently considering and implementing value engineering concepts to reduce the project cost

Preliminary Cost Estimate – Changes Since 2018 ATM

	2017/18 Recommendation	2019 Schematic Design Estimate
Construction cost estimate	\$7.5M	\$8.4M
Design cost estimate	\$750,000	\$1.1M
Owner soft cost estimates and contingencies (FFE, special fire equipment, decon. room, exhaust system, etc)	(not included)	\$1.4M
Total Project Cost	\$8.25M	\$10.9M

- Total Project Cost = Design, OPM, construction and soft costs
- Value Engineering work underway to reduce cost of the project

Preliminary Financial Impact

- Final project budget still being finalized
- Proposed borrowing to be requested at 2019
 Special Town Meeting Vote (Debt Exclusion also requires a ballot vote)
- A \$9.5M project would require estimated debt service of \$550,000 annually for 30 years
- Estimated annual cost to average single family household: \$65-\$75

Next Steps

PROJECT SCHEDULE									ķ a	AESTLE E	300S 1	(A MITCHELL ASSOCIATES ARCHTECTS
											Last Updated:	: 09.09.2019
TASK NAME		2019								2020		
	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB
KICK OFF MEETING		*										
SITE ANALYSIS		2 We	eks									
DATA GATHERING & REVIEW		41	Veeks									
PROGRAMMING INTERVIEWS			3 W	eeks								
DEVELOP PROGRAM			2 W	eeks								
CONCEPTUAL DESIGN OPTIONS				4 W	eeks							
OPINION OF PROBABLE COST (OPC)				1 We	ek							
REVIEW/ COMPARE OPTIONS					2 Weeks							
SELECT PREFERRED OPTION				•	1 Week							
SCHEMATIC DESIGN DEVELOPMENT					3 W	eeks						
COST ESTIMATE - OPC							4 Weeks					
PRESENTATION TO FINANCE COMM.							5	WE ARE H	HERE!			
PUBLIC OUTREACH										10 W	eeks	
SPECIAL TOWN MEETING 2019										DEC 10		
TOWN VOTE										DEC 17		



Next presentation will be at September 23rd

Board of Selectmen Meeting

